

Appl. No. 10/030,313
Amendment dated November 24, 2004
Reply to Office Action of June 16, 2004

Amendments to the Claims:

Without prejudice or disclaimer, please amend the claims as shown in the below Listing of Claims. This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A multi-valent immunogenic composition for conferring protection in a host against disease caused by both *Haemophilus influenzae* and *Moraxella catarrhalis*, which comprises:

at least four different antigens comprising, at least one antigen from *Haemophilus influenzae* and at least one antigen from *Moraxella catarrhalis*, at least three of which antigens are adhesins and at least one of which adhesins is from *Moraxella catarrhalis*.

2. (Original) The immunogenic composition of claim 1 wherein one of said antigens which is an adhesin is a high molecular weight (HMW) protein of a non-typeable strain of *Haemophilus influenzae*.

3. (Original) The immunogenic composition of claim 2 wherein said HMW protein is a HMW1 or HMW2 protein of a non-typeable strain of *Haemophilus influenzae*.

4. (Original) The immunogenic composition of claim 1 wherein another of the antigens which is an adhesin is a *Haemophilus influenzae* adhesin (Hia) protein of a non-typeable strain of *Haemophilus influenzae* or a *Haemophilus influenzae* surface fibril (Hsf) protein of a typeable strain of *Haemophilus influenzae*.

5. (Original) The immunogenic composition of claim 1 wherein an antigen of *Haemophilus influenzae* which is not an adhesin is a non-proteolytic heat shock protein of a strain of *Haemophilus influenzae*.

6. (Original) The immunogenic composition of claim 5 wherein the non-proteolytic heat shock protein of a strain of *Haemophilus influenzae* is an analog of *Haemophilus influenzae* Hin47 protein having a decreased protease activity which is less than about 10% of that of natural Hin47 protein.

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7. (Original) The immunogenic composition of claim 1 wherein one of said antigens which is an adhesin is an outer membrane protein of *Moraxella catarrhalis* having an apparent molecular mass of about 200 kDa, as determined by SDS-PAGE.

Claims 8-28 (Canceled)

29. (Currently Amended) A method of immunizing a host against disease caused by infection with both *Haemophilus influenzae* and *Moraxella catarrhalis*, including otitis media, which comprises administering to the host an immunoeffective amount of a composition as claimed in claim 1 or 8.